What is Claimed:

1		1. A filtering system having a probe for coupling two resonators
2	comprising	
3		an iris having the probe disposed therein coupled between the two
4	resonators; a	ind
5		the probe having a transverse opening for receiving a tuning
6	conductor,	
7		wherein the tuning conductor provides adjustable coupling between
8	the two resor	nators.
ı		2. The system of claim 1 wherein
•		2. The system of claim I wherein
2		the tuning conductor is grounded at one end and provides a capacitive
3	coupling to g	round between the two resonators.
l		3. The system of claim 1 wherein
2		the tuning conductor is transversely oriented to the probe, and
		b was a same release, and the probe, and
3		fixedly movable in the transverse opening of the probe to provide an
ı	adjustable ca	pacitance between the two resonators.
		4. The system of claim 1 wherein

2	tn	e tuning conductor is a center conductor of a coax line.
1	5.	The system of claim 4 wherein
2	the	e coax line includes an outer dielectric sleeve, a coax shell, and a
3	shrink tubing, ea	ach surrounding the tuning conductor.
1	6.	The system of claim 1 wherein
2	the	e tuning conductor is electrically insulated from the probe by a
3	dielectric materia	al.
1	7.	The system of claim 1 wherein
2	the	e tuning conductor is inserted in a transverse opening in a septum
3	separating the tw	vo resonators, and
4		e transverse opening of the septum is aligned to the transverse
5	opening of the pr	obe.
1	8.	The system of claim 1 wherein
2	the	tuning conductor is surrounded by a coax shell, the coax shell
3	electrically conne	cted to the probe, and
ļ	the	probe is electrically insulated from the tuning conductor.
	9.	The system of claim 1 wherein

2		each of the two resonators includes a resonating rod disposed in a
3	waveguide se	ction.
1		10. The system of claim 1 wherein
2		each of the two resonators includes a waveguide cavity.
1		11. The system of claim 1 wherein
2		each of the two resonators includes a dielectric resonator.
1		12. The system of claim 1 wherein
2	set screw.	the tuning conductor is adjustably fixed with respect to the probe by a
1		13. The system of claim 1 wherein
2		the probe includes an end disposed in one of the two resonators, and
3		the end of the probe and the one resonator form a capacitor.
1		14. The system of claim 1 wherein
2		the probe includes an end disposed in one of the two resonators, and
3		the end of the probe is coupled to a ground potential by a wire loop,
ļ	the wire loop f	orming a coil.

1		15. A filtering system having a plurality of resonators comprising
2	resonators, a	at least one probe extending between two resonators of the plurality of
4		a tuning conductor transversely oriented to the probe,
5	the two reso	wherein the tuning conductor provides adjustable coupling between nators.
1		16. The system of claim 15 wherein
2	capacitance t	the tuning conductor is grounded at one end and provides a variable o ground between the two resonators.
1		17. The system of claim 15 wherein
2	and	the tuning conductor is received in a transverse opening of the probe,
4		the tuning conductor is electrically insulated from the probe.
I		18. The system of claim 15 wherein
2		the two resonators are separated by a septum, and
3	resonators.	the septum includes an iris for supporting the probe between the two

1	19. The system of claim 15 wherein
2	each of the two resonators includes a resonating rod disposed in a
3	waveguide section.
1	20. The system of claim 15 wherein
2	each of the two resonators includes a dielectric resonator disposed in a
3	resonating cavity.
l	21. The system of claim 15 wherein
<u>!</u>	each of the two resonators includes a resonating cavity